



Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
June 1, 2010

Closing Date:
June 21, 2010

PUBLIC NOTICE

IDEM ID Number:
2010-134-49-BCB-A

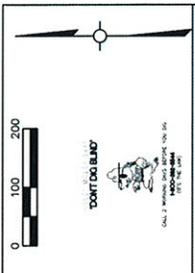
Corps of Engineers ID Number:
LRL-2010-414-sjm

To all interested parties: This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

- | | | | |
|----------------------|---|------------------|--|
| 1. Applicant: | Mr. Stephen Nielson
Indianapolis Department of Public Works
Madison Plaza Building
1200 South Madison Avenue
Indianapolis, IN 46225 | 2. Agent: | Mr. Joseph Dabkowski
Bernardin Lochmueller & Associates
3502 Woodview Trace, Suite 150
Indianapolis, IN 46268 |
|----------------------|---|------------------|--|
- 3. Project location:** Sections 23 and 26, Township 15 North, Range 3 West, Maywood U.S.G.S. Quad, Marion County. Adjacent to the intersection of Troy Avenue and Bluff Road, Upper White 8-Digit HUC, 05120201.
- 4. Affected waterbody:** Highland Creek, Germania Creek and 0.06 acre emergent jurisdictional wetlands.
- 5. Project Description:** The applicant proposes to discharge approximately 0.78 cubic yards (cys) of steel sheet piling and concrete below the Ordinary High Water Mark (OHWM) of Highland Creek for the purposes of constructing a block flood diversion wall. The wall will be 150' wide (perpendicular to channel continuing into floodplain) by 2' thick by 15' tall (10' below grade). A 24" high by 48" wide open bottom hole in the wall will allow the normal low flow to continue downstream, but the wall will divert storm water north to a concrete swale and box culvert under Troy Avenue, then through an excavated swale. The excavated swale will impact 0.06 acre of emergent wetland from excavation and grading, and will be planted with native vegetation. Additionally, wetland mitigation from another project will be constructed adjacent to the swale and existing wetlands. The storm water will then flow from the excavated swale into an existing pond that discharges into Germania Creek under Bluff Road. The existing pipe that outlets the pond into Germania Creek and the culvert carrying Germania Creek under Bluff Road will be replaced with a 4' diameter by 226' long culvert, and 144 square feet of scour stop mat will be placed in the channel at the outlet. Approximately 355 cys of soil will be removed from Germania Creek for 1,230 lf to allow for improved flow from the pond to the outfall at the White River. The purpose of the project is to reduce the flooding in the downstream residential area of Frog Hollow. For additional plans and information, please visit the IDEM Public Notice Webpage at <http://www.in.gov/idem/5474.htm>.

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.



Project Description
 This project is located in Center and Perry Townships, near the intersection of Bluff Road and Troy Avenue. The project area is commercial/residential. Within the project area are two creeks and one detention basin. The project area is bounded by Bluff Road to the west and Troy Avenue to the east. The project area is located in the northwest quadrant of the Bluff Road and Troy Avenue intersection. The project area is located in the northwest quadrant.

The purpose of this stormwater diversion is to reduce the flooding in the downstream residential area. The project area is located in the northwest quadrant of the Bluff Road and Troy Avenue intersection. The project area is located in the northwest quadrant.

Proposed Improvements
 The proposed improvements will begin at the outlet structure of Germania Creek. No changes are proposed for the forty-eight (48") inlet pipe structure. The proposed improvements will be located upstream (UP) of the Germania Creek. The proposed improvements will be located upstream (UP) of the Germania Creek. The proposed improvements will be located upstream (UP) of the Germania Creek.

Proposed Stormwater Diversion
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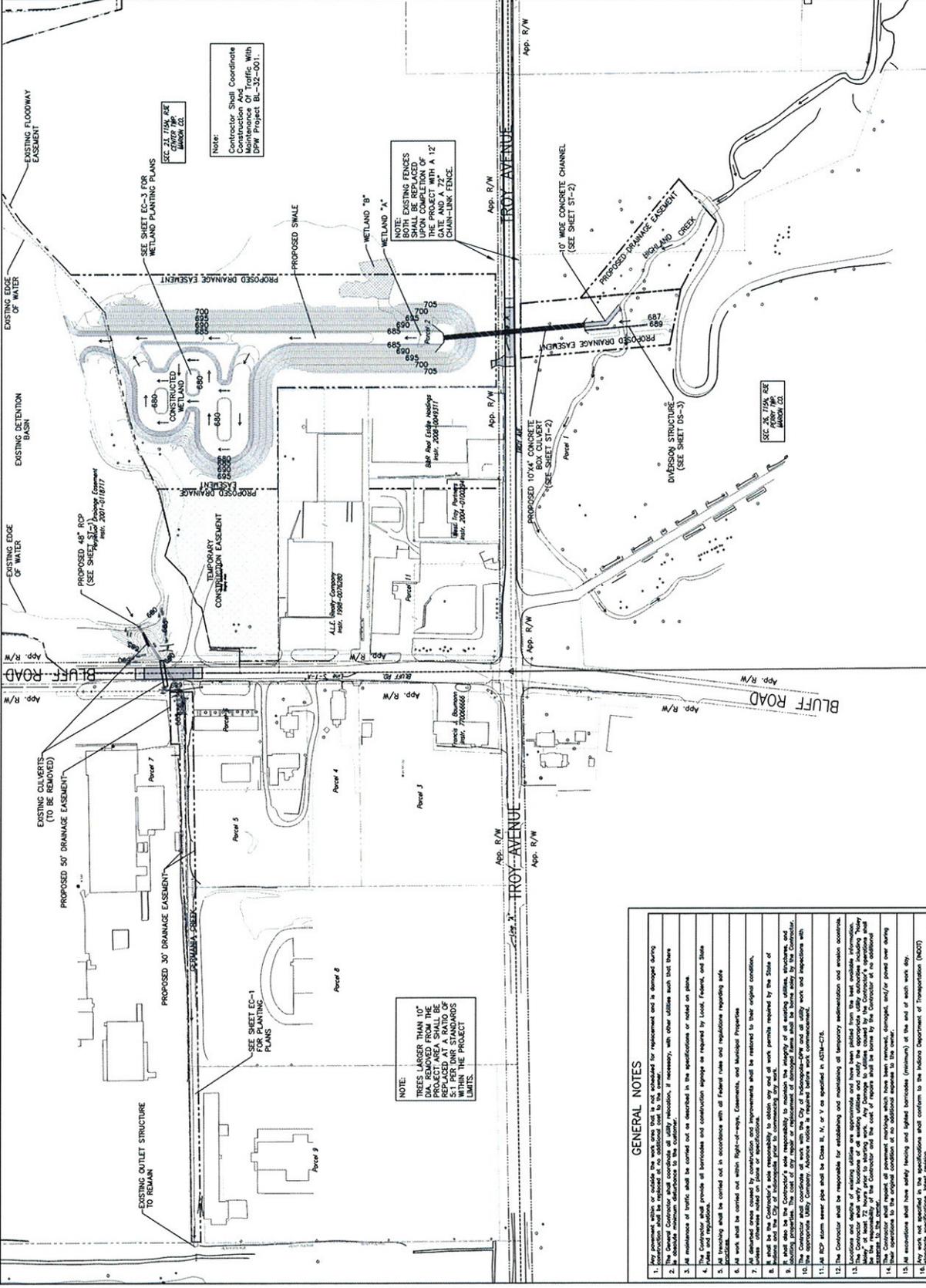
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DPW PROJECT NUMBER	SD-32-009
CONSULTANT PROJECT NUMBER	206-0020-GW
SHEET	SD-1



RECOMMENDED FOR APPROVAL	Donald E. Wilson, Jr.	4/29/09	
DESIGNED BY	DEW	DRAWN BY	KLM/BRD
CHECKED BY	CDC	CHECKED BY	DEW

HIGHLAND CREEK AT BLUFF RD. & TROY AVE.
 STORMWATER DIVERSION PROJECT

100% PLANS

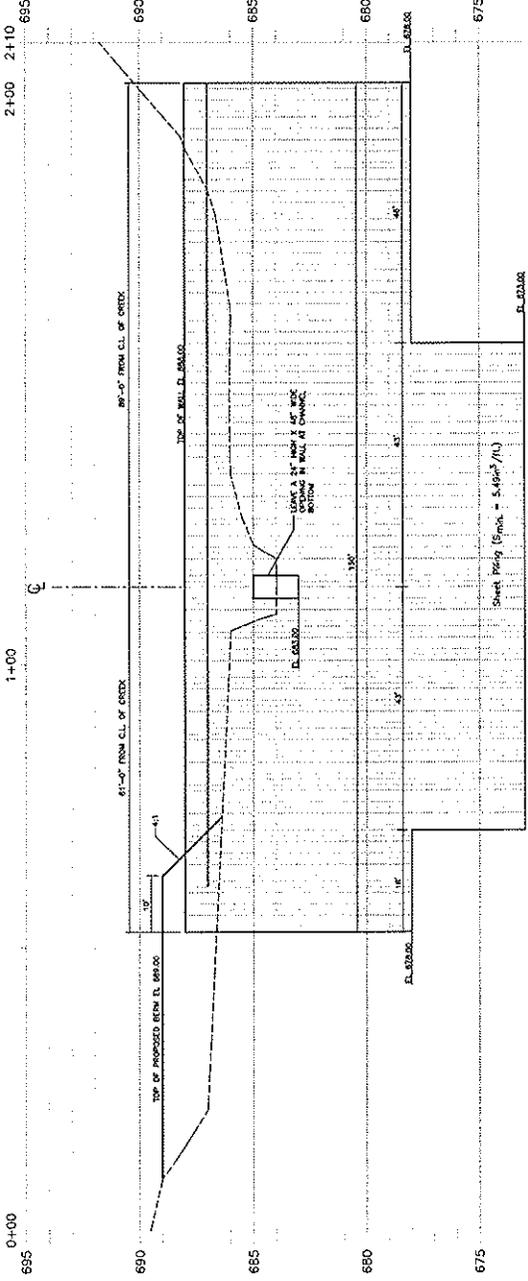
Prepared by
BERNARD LOCHMUELLER & ASSOC., INC.
 Planners Engineers Surveyors
 6125 South Gray Street, Suite 200
 Indianapolis, IN 46220-1311 (317) 251-3300



OVERALL SITE PLAN

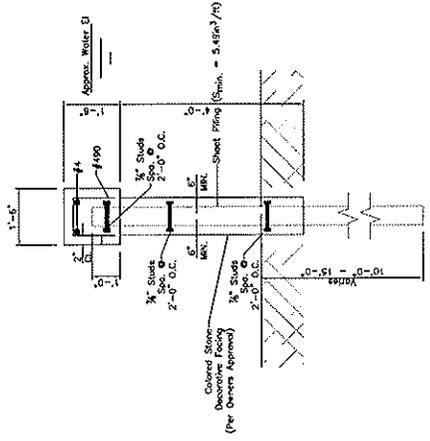
DATE	REVISIONS	BY

- GENERAL NOTES**
1. Any permit conditions or restrictions on the work shall be noted on the permit for replacement and is damaged during.
 2. The General Contractor shall coordinate all utility relocation, if necessary, with other utilities such that there are no conflicts.
 3. All construction shall be in accordance with the specifications or noted on plans.
 4. The Contractor shall provide all barricades and construction signage as required by Local, Federal, and State.
 5. All excavating shall be in accordance with all Federal rules and regulations regarding safe excavation.
 6. All work shall be carried out within right-of-way, easements, and municipal properties.
 7. All materials used for construction and improvements shall be retained to their original condition.
 8. It shall be the Contractor's sole responsibility to obtain any and all work permits required by the State of Indiana and the City of Indianapolis prior to commencing any work.
 9. All utility relocation shall be in accordance with the specifications or noted on plans.
 10. The Contractor shall coordinate all work with the City of Indianapolis and all utility work and relocations with the appropriate utility companies. Notices shall be required before work commences.
 11. All RFP items shall be Class B, R, or V or any combination of B, R, or V.
 12. The Contractor shall be responsible for establishing and maintaining temporary maintenance and erosion controls.
 13. Locations and depths of existing utilities are approximate and have been plotted from the best available information. The Contractor shall verify the location and depth of all utilities prior to starting work. Any damage to utilities owned by the Contractor's operations and equipment shall be repaired at the Contractor's expense.
 14. The Contractor shall provide all construction materials and equipment, including, but not limited to, end-of-pipe cover during construction.
 15. All construction shall be safety fenced and signed barricaded (minimum) at the end of each work day.
 16. All materials used shall be in accordance with the Indiana Department of Transportation (INDOT) standards.



DIMENSION WALL PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=3'

LEGEND
 --- EXISTING SURFACE
 — PROPOSED SURFACE



**ELEVATION VIEW
 TOP-OF-CONSTRUCTION**

#490 x 3'-6"

SECTION A-A
 SCALE: Not To Scale

DATE	REVISIONS	BY
	REVISION	

RECOMMENDED FOR APPROVAL
 David E. Wilson, Jr. 5/07/10
 DESIGNED: DEW
 CHECKED: CDC

LOOK FOR THIS SIGN NOT FOR CONSTRUCTION

Benjamin Lachmiller & Associates, Inc.
 Planning, Engineering, Surveying
 3500 Woodloch Trace
 Suite 150
 Indianapolis, IN 47524 (317) 333-3000

**HIGHLAND CREEK AT BLUFF RD. & TROY AVE
 STORMWATER DIVERSION PROJECT**

MISCELLANEOUS DETAILS

DPW PROJECT NUMBER	SD-32-009
CONSULTANT PROJECT NUMBER	206-0020-GWW
SHEETS	D05-3

Section 1

From the intersection of I-70 and Raymond St, follow Raymond St east for approximately 3.9 miles until you reach the intersection of Raymond St. and Bluff Rd. Go right on Bluff Rd and follow for approximately 0.9 miles until you reach Germania Creek Crossing and the intersection of Bluff Rd and Troy Ave.

Section 2

The purpose of this stormwater diversion project is to reduce the flooding in the downstream residential area known as Frog Hollow. There are presently 150 residents within Frog Hollow that are affected by standing water that prevents ingress and egress even during small storm events. The cause of this is compounded by the neighborhood being located along Highland Creek but also is the backwater pool of the White River. When the White River backs up, dilapidated flap gates at the IPL power plant railroad track close, keeping the White River flows out, but effectively stopping the discharge flow of Highland Creek at the same time. Once the Highland Creek flow is stopped, all of the headwater discharging down the creek stops and pools in the neighborhood.

The proposed project will divert high water events from Highland Creek to an existing pond via a stormwater diversion structure (wall) in the creek channel to a concrete channel then to a box culvert under Troy Avenue then finally on to an excavated open swale. The stormwater diversion structure will be located within the Highland Creek channel and will cause stormwater to be diverted north. A 24" high by 48" wide hole in the wall will allow the low flow from the creek to remain in the channel. A wetland will be constructed in an area north of Troy Ave and east of Bluff Rd, connected to the swale. The constructed wetland will serve as mitigation for separate project. The planting plan is shown on page EC-3 of the plans. This swale will empty into the existing pond.

The construction of the open swale will consist of excavating soil to create the swale. The excavation of Wetland A (145 cubic yards) and partial excavation of Wetland B (145 cubic yards) will be necessary to construct the open swale. Impacts to Highland creek will be necessary to construct the stormwater diversion wall. Approximately 0.78 cubic yards of concrete will be placed in Highland Creek below the ordinary high water mark (OHWM) to construct the stormwater diversion wall.

Downstream of the existing pond, the Germania Creek channel will be cleared of existing debris and regraded to provide a lower invert elevation at the pond outlet structure. Much of the existing stream bank vegetation will remain. Lowering the elevation of Germania Creek at Bluff road will require the replacement of the existing box culvert under Bluff Road and the existing pipe at the pond outlet into Germania Creek with a 4 foot diameter by 226 foot long concrete pipe and allow for additional storage within the existing pond located in the northeast quadrant of Bluff Road and Troy Avenue. Impacts to Germania Creek will be necessary to allow improved flow from the pond to the outfall in the White River. Approximately 355 cubic yards of soil will be removed from Germania Creek and

the installation of approximately 1,298 square yards of geotech fabric will be placed in Germania Creek for erosion protection. The existing pipe at the pond outlet into Germania Creek will be removed and the existing box culvert that carries Germania Creek under Bluff Road will be removed and replaced with a 4 foot wide by 226 foot long concrete pipe. At the outlet of the pipe; 1,296 square feet of Scour Stop Mat will be installed in addition to the geotech fabric for erosion control. No changes are proposed for the forty-eight (48") inch pipe or the sixty (60") inch pipe at the downstream end of Germania Creek.

The City of Indianapolis will maintain the stormwater diversion wall in Highland Creek to insure all debris is removed to allow full function of the wall and low flow opening. Access to Germania Creek on the west side of Bluff Road will occur adjacent to Bluff Road where impacts to trees will be minimized. Access to Germania Creek east of Bluff Road will utilize an existing gravel drive onsite. All of the excavated material from the construction of the stormwater swale and sediment removal in Germania Creek will be placed in an upland area or a permitted fill area.

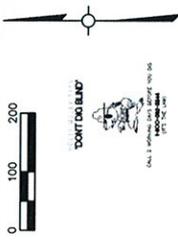
Section 3

Yes. The grading has been reduced and restricted to just a small portion at Wetland B to minimize the impacts to this resource. The remainder of Wetland B will be avoided and marked during construction so no construction equipment can impact the wetland. Due to the fact that the stormwater diversion wall on Highland Creek will only allow normal low flows downstream, this will help preserve the stability of the channel downstream and prevent/minimize scouring along the downstream corridor during high water events. Mature trees along Germania Creek will be avoided except at the access point for construction equipment.

Section 4

Impacts to Highland creek will be necessary to construct a 2 foot thick concrete stormwater diversion wall. Bank impacts will consist of approximately 10 feet of impacts along the right and left banks. A total of approximately 0.78 cubic yards (0.39 cubic yards per running foot) of concrete will be placed in Highland Creek below the ordinary high water mark (OHWM) to construct the stormwater diversion wall.

Impacts to Germania Creek will be necessary to allow improved flow from the pond to the outfall in the White River. Approximately 355 cubic yards of soil will be removed from Germania Creek and the installation of approximately 1,296 square yards of geotech fabric will be placed in Germania Creek for erosion protection. The existing pipe at the pond outlet into Germania Creek and the existing box culvert that carries Germania Creek under Bluff Road will be replaced with a 4 foot wide by 226 foot long concrete pipe. A total of 279 cubic yards (1.23 cubic yards per running foot) of fill will be required for the replacement of the existing box culvert with the new pipe culvert. At the outlet of the pipe culvert; 1,296 square feet of Scour Stop Mat will be installed in addition to the geotech fabric for erosion control.



LEGEND

- EXISTING CONTOURS
- EXISTING PROPERTY LINE
- EXISTING RIGHT OF WAY
- EXISTING FENCE
- EXISTING NORMAL POOL
- EXISTING EDGE OF ROAD
- EXISTING FLOW LINE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING BUILDING
- OVERHEAD UTILITIES
- EXISTING PIPE
- GAS LINE
- OVERHEAD ELECTRIC LINE
- WATER LINE
- SANITARY SEWER

UTILITY CONTACTS

ELECTRIC
 Richard Williams
 Project Coordinator
 Citizens Gas
 1000 N. Meridian Street
 Indianapolis, IN 46202
 317-927-4684-Office
 317-341-3840-Cell

WATER
 Erin Turner
 Veolia Waterways Blvd.
 5600 N. River Road, Suite 300
 Rosemont, IL 60018
 847-577-7777-Office
 830-660-3826-FCS

CABLE TV
 Jeff Farmer Networks
 Construction Dept.
 3030 Roosevelt Ave
 Indianapolis, IN 46202
 317-538-0541-Office
 (317) 972-9700-Office

GAS
 Richard Miller
 Citizens Gas
 1000 N. Meridian Street
 Indianapolis, IN 46202
 317-927-4684-Office
 317-341-3840-Cell

TELEPHONE
 Gerry A. Crain
 5600 N. River Road, Suite 300
 Rosemont, IL 60018
 847-577-7777-Office
 830-660-3826-FCS

NOTES:

1. Existing contours and onsite utilities represent conditions as shown on the survey and do not necessarily represent actual conditions. Contractor to verify existing information prior to any construction activity.
2. Survey provided by others.
3. Sprint/Verizon has no fiber optic utilities in the area of construction.
4. Eighthouse Networks has Cable TV lines running along Troy Avenue going west to Buff Road on IFL point.

DPW PROJECT NUMBER	SD-32-009
CONSULTANT PROJECT NUMBER	208-0020-GWW
SHEET	SV-1

HIGHLAND CREEK AT BLUFF RD. & TROY AVE. STORMWATER DIVERSION PROJECT	EXISTING TOPOGRAPHY & UTILITIES
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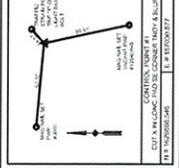
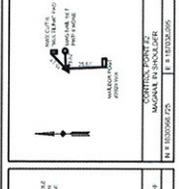
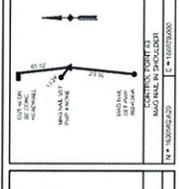
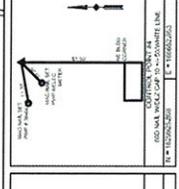
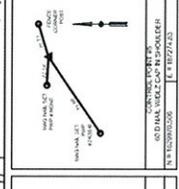
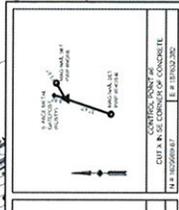
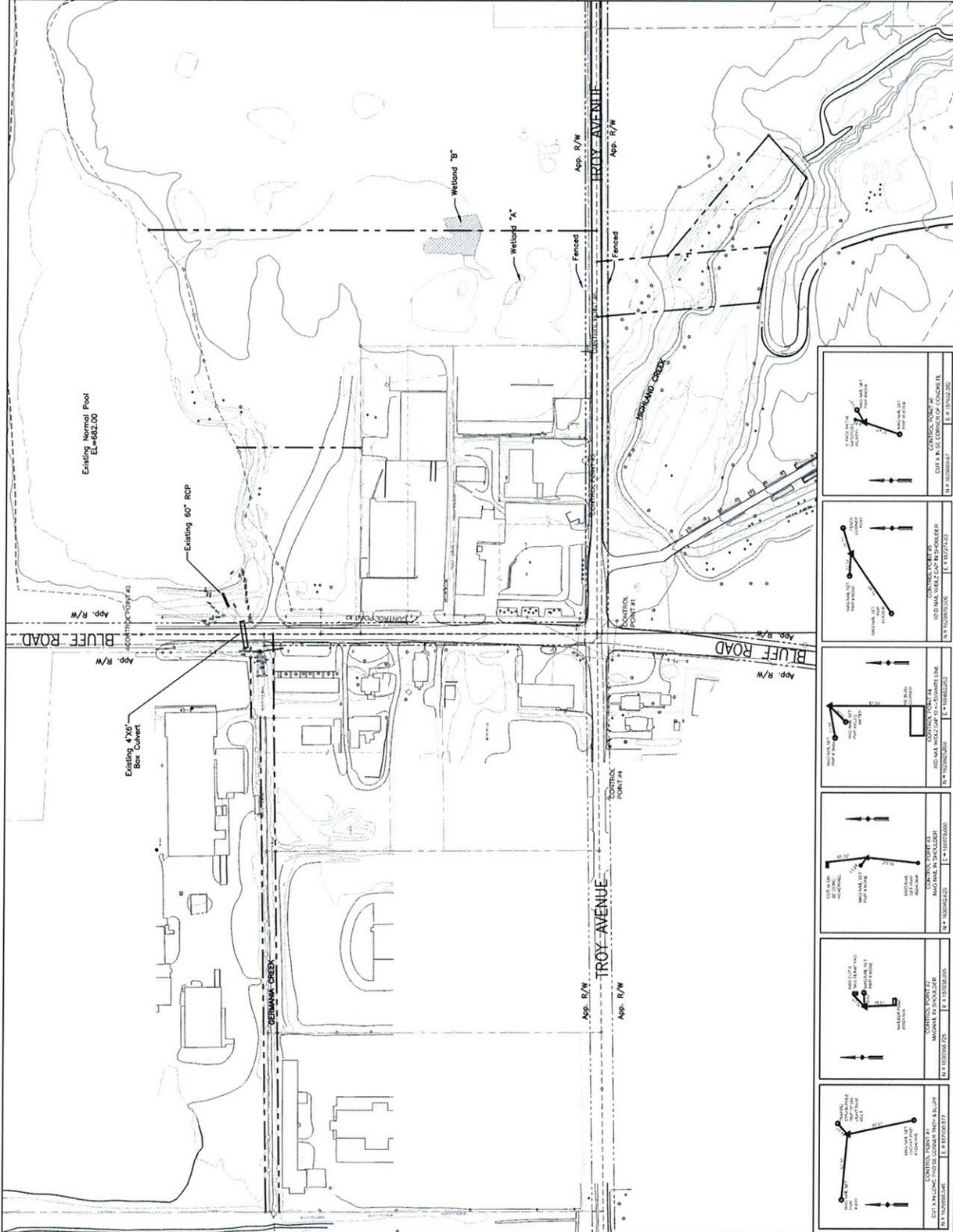
RECOMMENDED FOR APPROVAL	Donald E. Wilson Jr. 4/29/09
DESIGNED BY	DEW
CHECKED BY	DEW
DRAWN BY	KLM/BRD
CHECKED BY	DEW

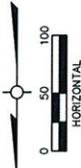
100% PLANS

Prepared by
BERNARDI LOCHMULLER & ASSOC., INC.
 Planners Engineers Surveyors
 Indianapolis, IN 46227 (317) 321-2880



DATE	REVISIONS	BY





'DON'T DIG BLD'
MOLEY WOLEY SAYS



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5644
(IT'S THE LAW)

- 1. PRIOR TO PAVEMENT REMOVAL, THE CONTRACTOR SHALL REMOVE AND RESTORE IT TO ITS ORIGINAL ELEVATIONS UPON COMPLETION OF THE PROJECT.
- 2. THE CONTRACTOR SHALL REMOVE A MAXIMUM CROSSING FOR STRUCTURE CONSTRUCTION OR REPLACEMENT.
- 3. AT EACH END OF THE PAVEMENT REMOVAL, THE EXISTING PAVEMENT SHALL BE SAW CUT TO A DEPTH OF 1.5" FOR A LENGTH OF TWENTY (20') FEET.
- 4. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 5. STRUCTURAL BACKFILL SHALL BE PLACED IN ACCORDANCE WITH DETAIL ON SHEET DS-1.
- 6. PAVEMENT REPLACEMENT SHALL BE IN ACCORDANCE WITH DETAIL ON SHEET DS-1.
- 7. NOTE: ONLY ONE ROAD CLOSURE (TROY AVE. CULVERT RD.) IS PERMISSIBLE AT ANY GIVEN TIME.

(E) THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SWALE AS SHOWN IN THE PLANS WITH A MAXIMUM SIDE SLOPE OF 3:1.

(E) THE CONTRACTOR SHALL CONSTRUCT THE CONSTRUCTED WETLAND AS SHOWN IN THE PLANS AND DESCRIBED IN THE SPECIFICATIONS.

(C) THE CONTRACTOR SHALL CONSTRUCT A 10" X 4' WALL STRUCTURE IN ACCORDANCE WITH THE DETAILS ON SHEET DS-1 AND THE SPECIFICATIONS.

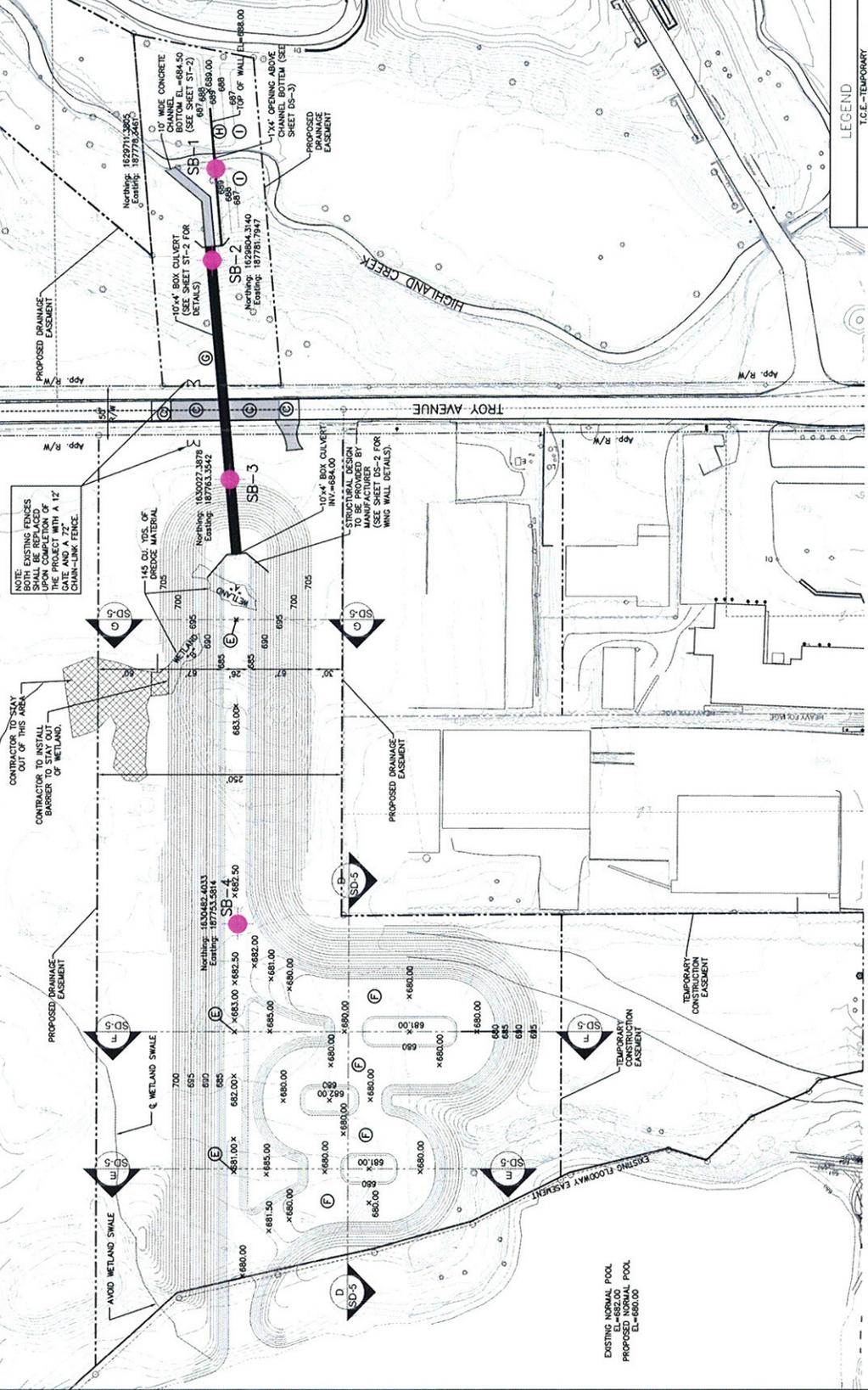
(H) THE CONTRACTOR SHALL CONSTRUCT A BLOCK WALL STRUCTURE IN ACCORDANCE WITH THE DETAILS ON SHEET DS-1 AND THE SPECIFICATIONS.

2. THE TOP OF WALL ELEVATION SHALL BE 688.00

3. THE OPENING AT THE FLOW LINE OF THE WALL SHALL BE FOUR (4) FEET IN WIDTH. THE TOP OF THE OPENING SHALL BE ONE (1'-0") FOOT ABOVE THE NATURAL FLOW LINE AND ONE (1'-0") FOOT BELOW THE NATURAL FLOW LINE.

(L) SEE GEOTECHNICAL REPORT FOR SOIL REQUIREMENTS AND KEYWAY DETAILS.

(U) ALL EXCAVATED MATERIAL TO BE PLACED IN AN UPLAND AREA OR A PERMITTED FILL AREA ONLY.



DPW PROJECT NUMBER	SD-32-009
CONSULTANT PROJECT NUMBER	206-0020-00W
SHEETS	SD-4

**HIGHLAND CREEK AT BLUFF RD. & TROY AVE
STORMWATER DIVERSION PROJECT**

SITE DEVELOPMENT PLAN - EAST

RECOMMENDED FOR APPROVAL	Donald E. Wilson Jr. 4/29/09
DESIGNED	DEW DRAWN: KLM/BRD
CHECKED	CCC CHECKED: DEW

100% PLANS

Prepared by
BERNARDIN LOCHMULLER & ASSOC., INC.
Planners, Engineers, Surveyors
Madison, WI 53707 (261) 222-3880



DATE	REVISIONS	BY
	REVISION	

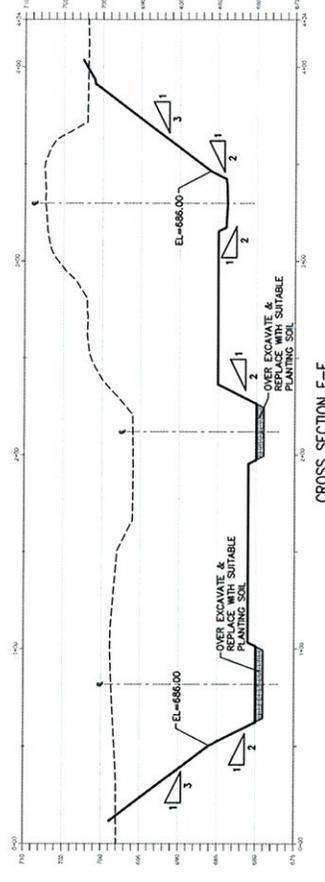
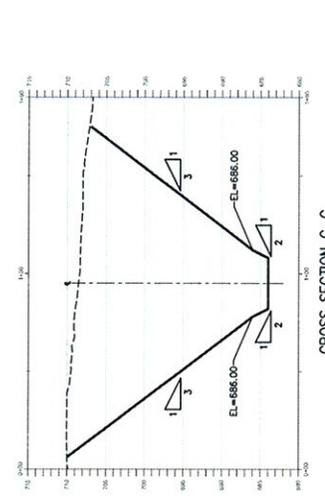
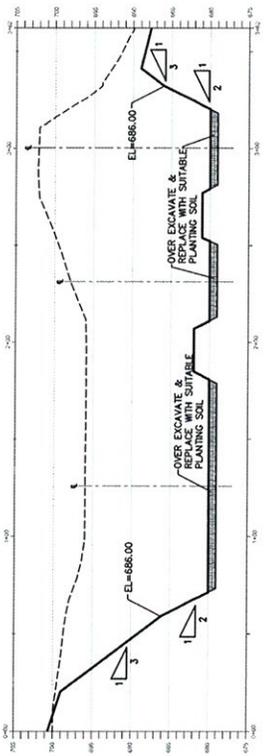
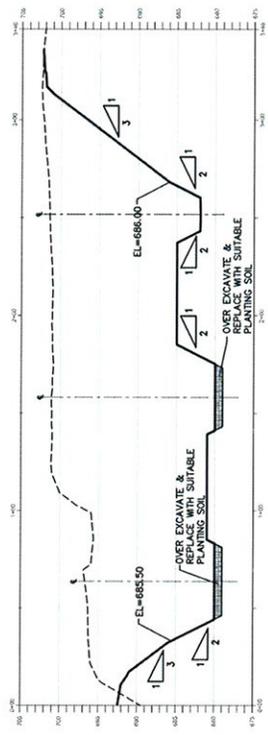
Scale:
Horizontal=1"=40'
Vertical=1"=10'

SOLE SOURCE CONTRACTOR
"DON'T DIG BLIND"



CALL 2 WEEKS BEFORE YOU DIG
1-800-385-6644
(IT'S THE LAW)

LEGEND



DATE	REVISIONS	BY



Presented by
BERNARDI & LOCHMULLER & ASSOC., INC.
Professional Engineers & Surveyors
0125-266-0400 Fax: 0125-222-5885
Hudson, NH 03071 (317) 222-5885

100% PLANS

RECOMMENDED FOR APPROVAL
Donald E. Wilson, Jr. - 4/29/09

DESIGNED: DEW
DRAWN: KJM/BRD

CHECKED: GDC
CHECKED: DEW

HIGHLAND CREEK AT BLUFF RD. & TROY AVE
STORMWATER DIVERSION PROJECT
CROSS SECTIONS D-D THROUGH G-G
OF PROPOSED CONSTRUCTED WETLAND

DPW PROJECT NUMBER
SD-32-009

CONSULTANT PROJECT NUMBER
206-0020-GWW

SHEETS
SD-5

SOLEY HOLE & SONS
'DON'T DIG BLIND'
 CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-382-5544
 (IT'S THE WAY)



LEGEND

PLAN VIEW

- (A) 3" STONE SHOULDER
- (B) PAVEMENT SECTION
- (C) SURFACE MILL & SURFACE REPAIRMENT
- (D) SINGLE WHITE LINE PER INDOT SPECIFICATIONS
- (E) DOUBLE YELLOW LINE PER INDOT SPECIFICATIONS

PROFILE VIEW

- PROPOSED DRAINAGE PIPES
- TEMPORARY CONSTRUCTION ENTRANCE
- EXISTING SURFACE
- PROPOSED SURFACE
- PROPOSED STRUCTURES

Scale:
 Horizontal=1"=50'
 Vertical=1"=20'

DPW PROJECT NUMBER	SD-32-009
CONSULTANT PROJECT NUMBER	206-0020-GW
SHEETS	ST-1

HIGHLAND CREEK AT BLUFF RD. & TROY AVE
 STORMWATER DIVERSION PROJECT
 PLAN & PROFILE (BLUFF ROAD)

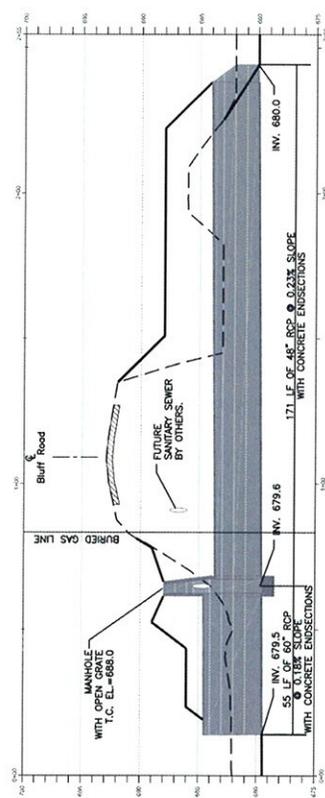
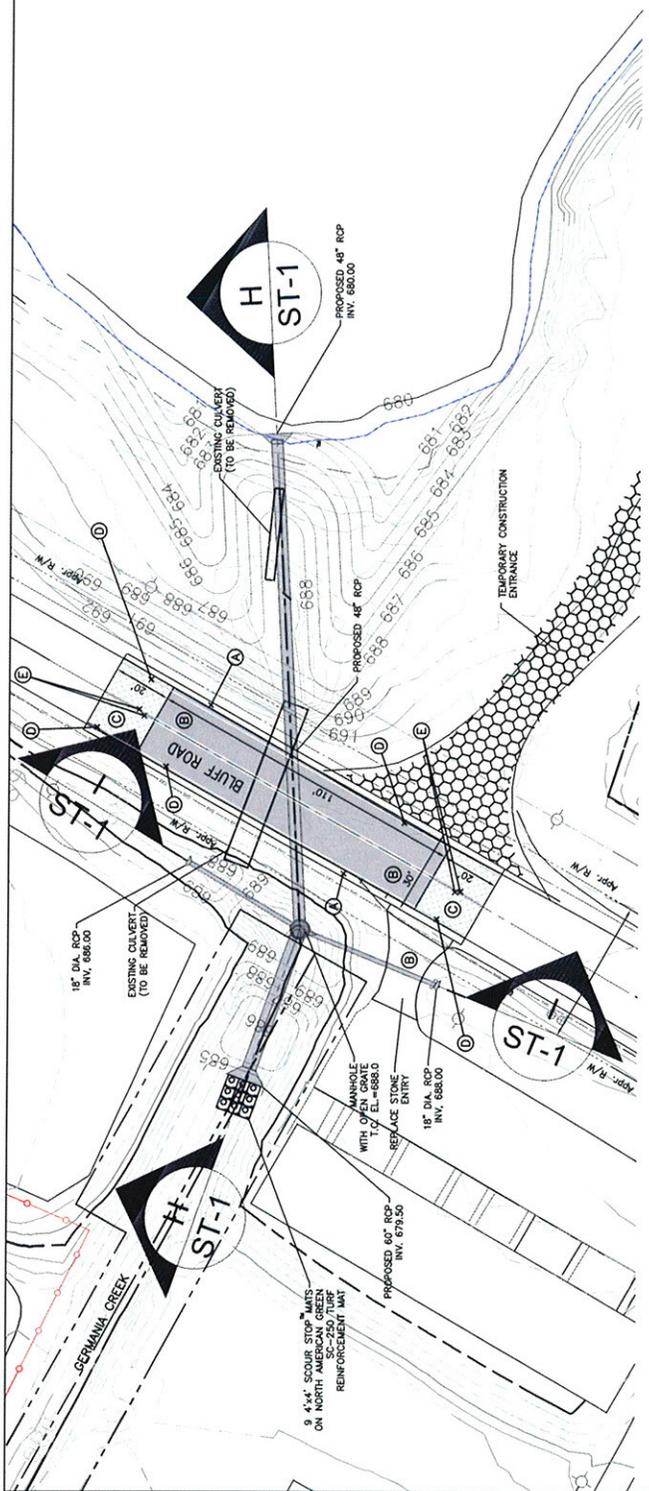
RECOMMENDED FOR APPROVAL	Donald E. Wilson, Jr. 4/29/09
DESIGNED BY	DEW
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DRAWN BY	KLM/BRO
CHECKED BY	DEW

100% PLANS

Prepared by
BERNARDIN LOCHMUELLER & ASSOC., INC.
 Engineers, Architects, Surveyors
 6125 Southport Court, Suite 200
 Indianapolis, IN 46227 (317) 222-3000

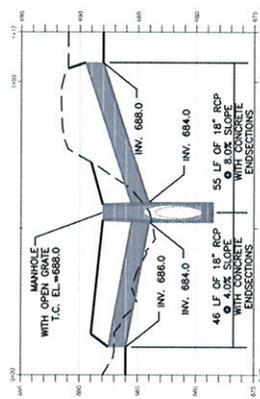


DATE	REVISIONS	BY



PROFILE H-H

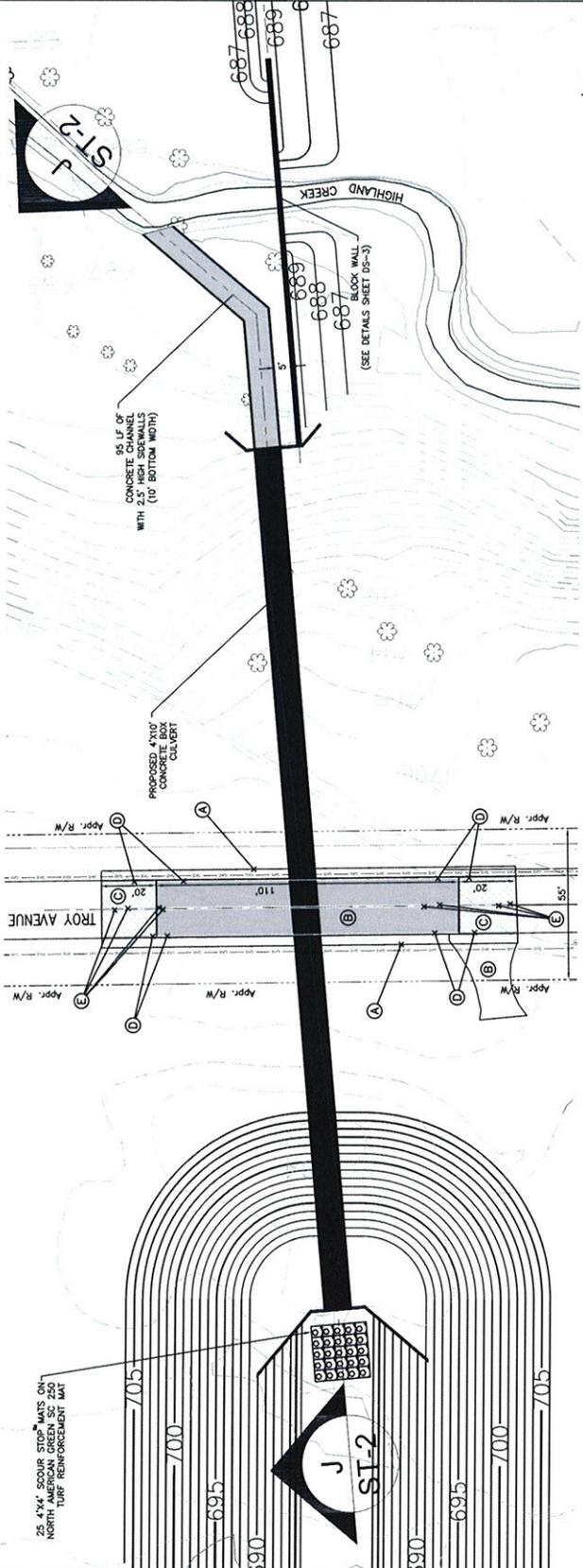
Note:
 Contractor Shall Coordinate Construction And Traffic With DPW Project BL-32-001.



PROFILE I-I

TOLEY MOLEY SAYS
'DON'T DIG BLIND'

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-882-5644
(IT'S THE LAW)



LEGEND

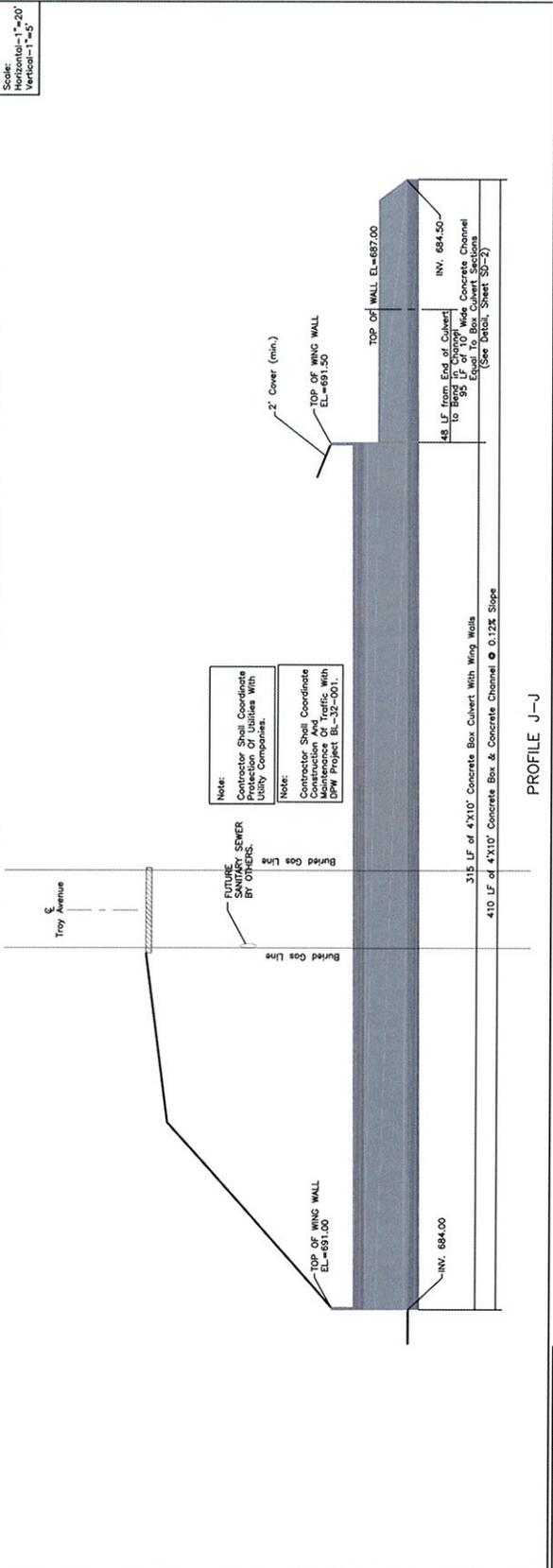
PLAN VIEW

- (A) 3' STONE SHOULDER
- (B) PAVEMENT SECTION
- (C) SURFACE MAIL & SURFACE REPLACEMENT
- (D) SINGLE WHITE LINE PER INDOT SPECIFICATIONS
- (E) DOUBLE YELLOW LINE PER INDOT SPECIFICATIONS

Proposed Box Culvert

PROFILE VIEW

- EXISTING SURFACE
- PROPOSED SURFACE
- █ PROPOSED STRUCTURES



Note:
Contractor Shall Coordinate With All Utilities With Utility Companies.

Note:
Contractor Shall Coordinate Construction And Traffic With DPW Project BL-32-001.

REVISIONS

DATE	REVISION	BY

100% PLANS

RECOMMENDED FOR APPROVAL
Donald E. Wilson Jr. 4/29/08

DESIGNED BY: DEW
CHECKED BY: GDC

DRAWN: KLM/BRD
CHECKED: DEW

Project by:
BRENNAN LOCHMILLER & ASSOC., INC.
Planners, Engineers, Surveyors
Indianapolis, IN 46227 (317) 222-3850

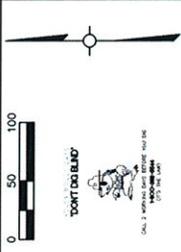
DPW

PROFILE J-J

**HIGHLAND CREEK AT BLUFF RD. & TROY AVE
STORMWATER DIVERSION PROJECT**

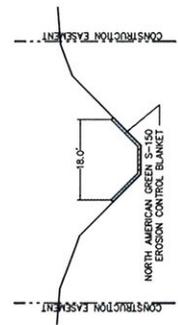
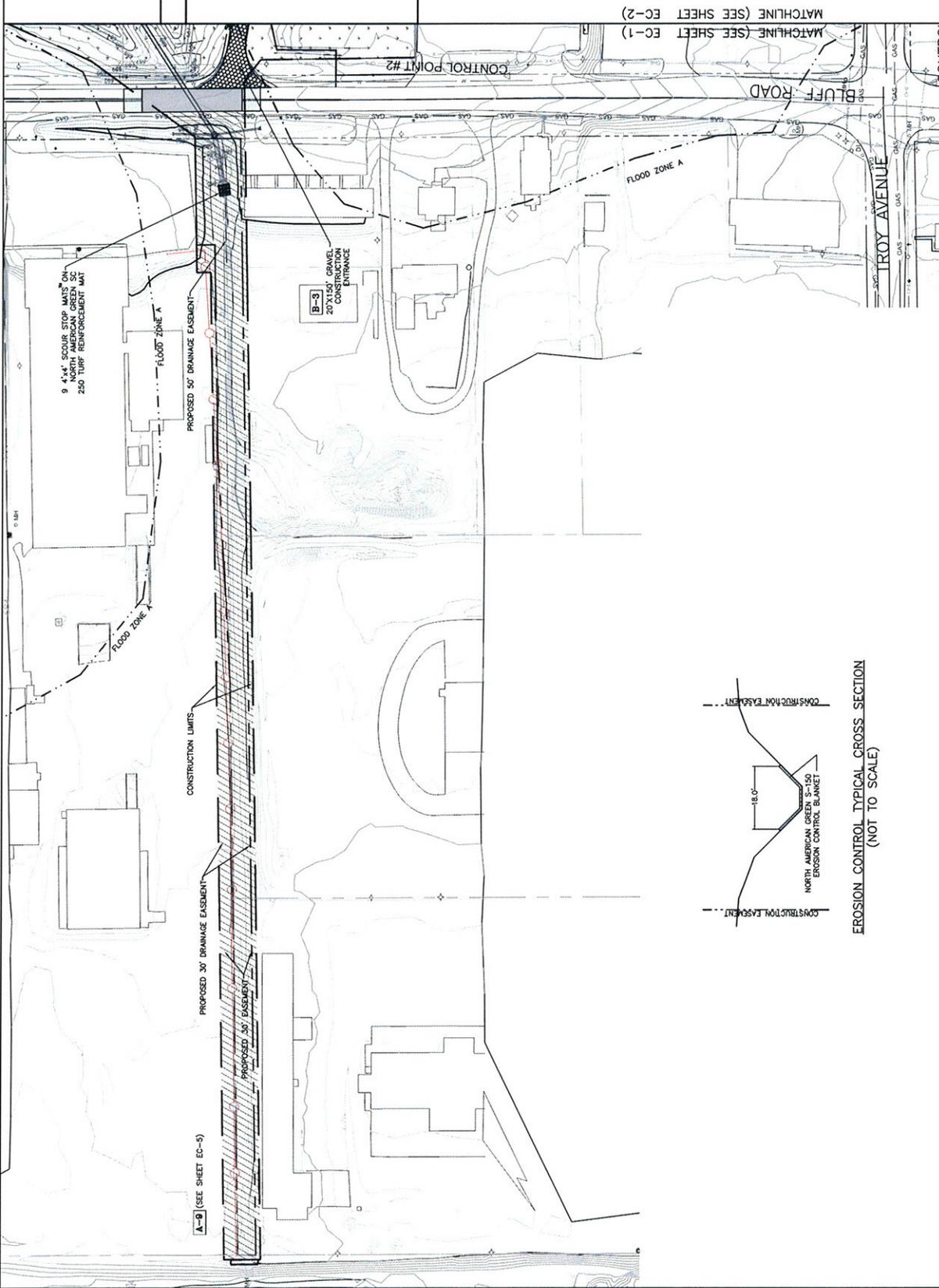
PLAN & PROFILE (TROY AVENUE)

DPW PROJECT NUMBER: SD-32-009
CONSULTANT PROJECT NUMBER: 206-0020-GWW
SHEETS: ST-2



LEGEND

	EROSION CONTROL BLANKET WITH PERMANENT SEEDING GREEN S-150
	PERMANENT SEEDING AND MULCHING
	SOIL STOP MATS (SEE SHEET EC-3)
	SILT FENCE
	CONSTRUCTION LIMITS
	FLOOD ZONE A LIMITS
	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



EROSION CONTROL TYPICAL CROSS SECTION
(NOT TO SCALE)

DPW PROJECT NUMBER	SD-32-009
CONSULTANT PROJECT NUMBER	206-0020-GWW
SHEET	EC-1

HIGHLAND CREEK AT BLUFF RD. & TROY AVE. STORM WATER DIVERSION PROJECT	
EROSION CONTROL PLAN (WEST)	

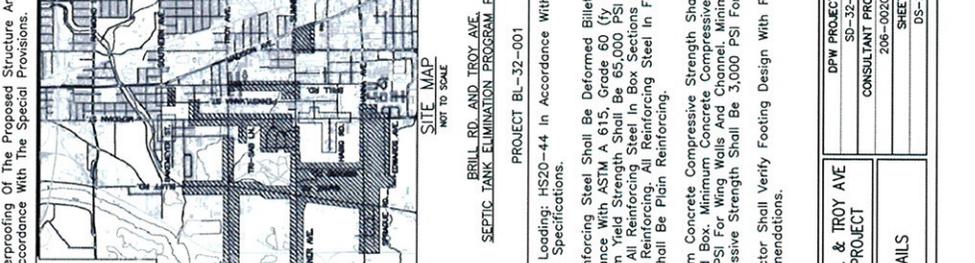
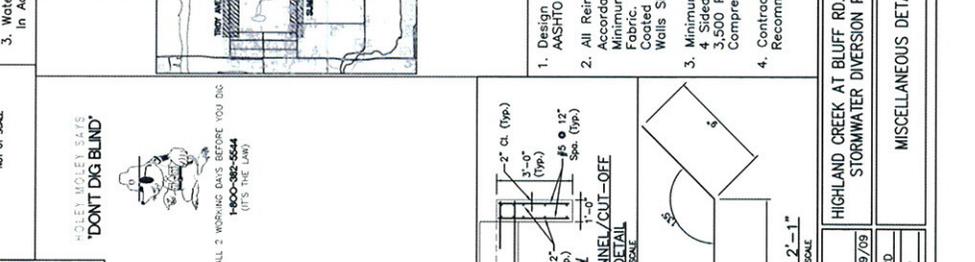
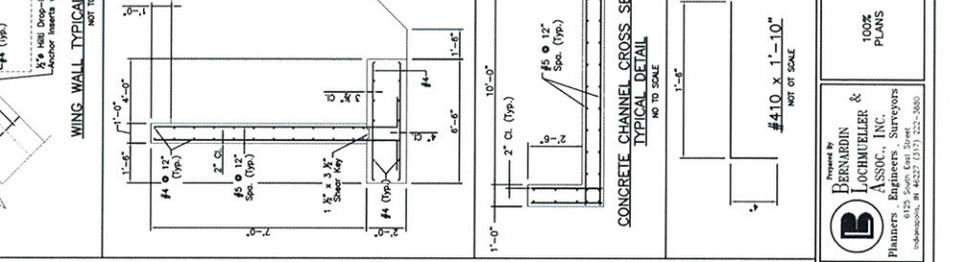
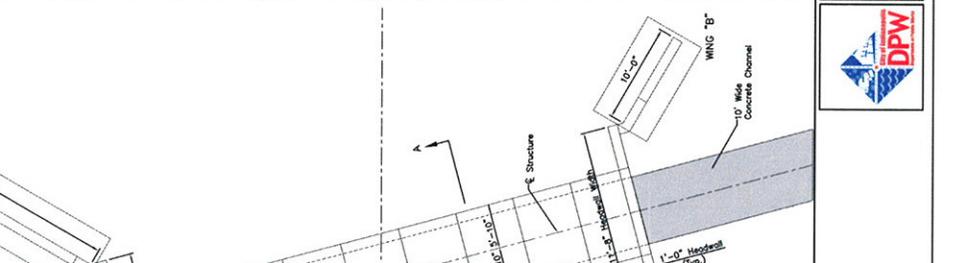
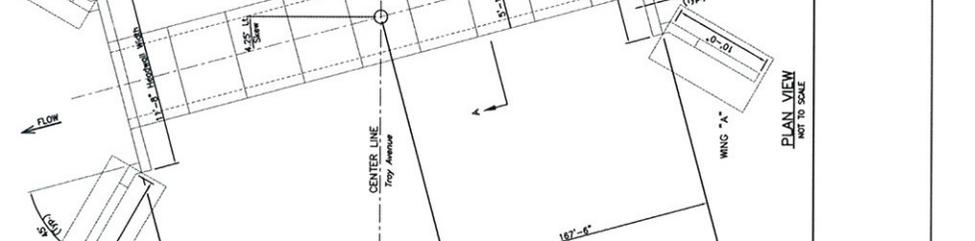
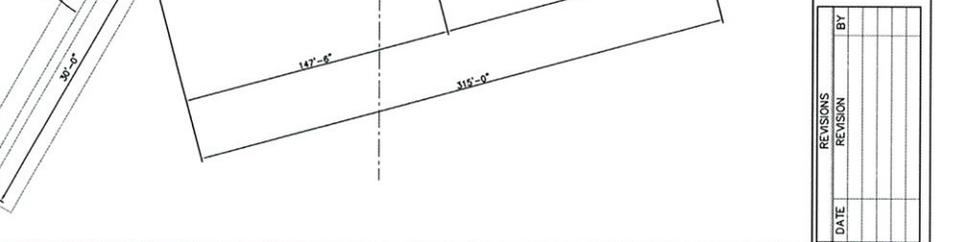
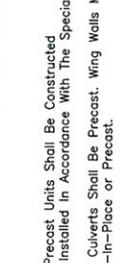
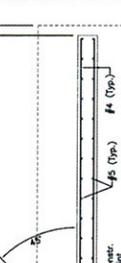
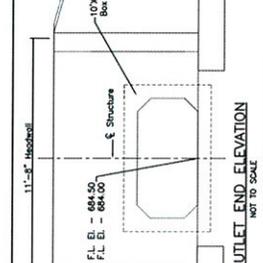
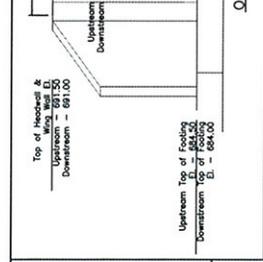
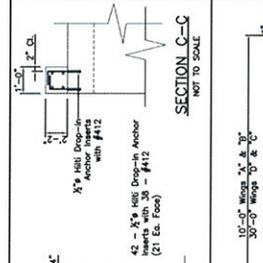
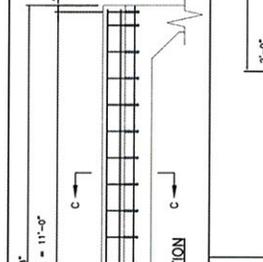
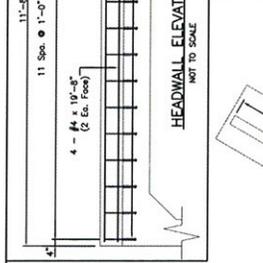
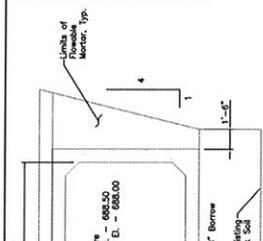
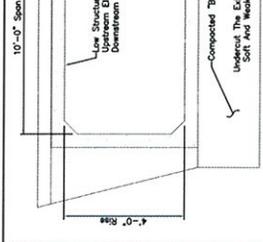
RECOMMENDED FOR APPROVAL	Donald E. Wilson, Jr.	4/29/09
DESIGNED BY	DEW	
CHECKED BY	CDC	
DRAWN BY	KLM/BRD	
CHECKED BY	DEW	

100% PLANS

Presented by
Bernardin Lochmiller & Assoc., Inc.
Planners Engineers Surveyors
6125 Parkview Drive
Indianapolis, IN 46221-7131 317-222-3886



DATE	REVISIONS	BY



DATE	REVISION	BY

Presented by
BERNARDIN LOCHMUELLER & ASSOC., INC.
Planners, Engineers, Surveyors
6125 South East Street
Indianapolis, IN 46227 (317) 222-3800

DPW

RECOMMENDED FOR APPROVAL
Donald E. Wilson Jr. 4/29/09
DESIGNED: DEW DRAWN: KLM/BRD
CHECKED: GDC CHECKED: DEW

100% PLANS

MISCELLANEOUS DETAILS

HIGHLAND CREEK AT BLUFF RD. & TROY AVE
STORMWATER DIVERSION PROJECT

DPW PROJECT NUMBER	SD-32-029
CONSULTANT PROJECT NUMBER	Z06-0202-GWW
SHEETS	DS-2